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NOTICE OF ALLOWANCE AND FEE(S) DUE

32566

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04/12/2010

PATENT LAW GROUP LLP 2635 NORTH FIRST STREET SUITE 223 SAN JOSE, CA 95134 EXAMINER

NGUYEN, STEVE N

ART UNIT PAPER NUMBER

2117

DATE MAILED: 04/12/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/751.649	12/29/2000	Ashok Singhal	M-8495 US	9244

TITLE OF INVENTION: COMMUNICATION LINK PROTOCOL OPTIMIZED FOR STORAGE ARCHITECTURES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	07/12/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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SAN JOSE, CA	95134						(Depositor's name)
			<u> </u>				(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	₹	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
09/751,649	12/29/2000		Ashok Singhal MIZED FOR STORAGE			M-8495 US	9244
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NGUYEN,		2117	714-711000 2. For printing on the		-4		
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			or agents OR, alternation (2) the name of a sing registered attorney or	of a single firm (having as a member a torney or agent) and the names of up to patent attorneys or agents. If no name is			
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	T a substitute for filing an (B) RESIDENCE: (CIT	oatent. If an assign assignment. Y and STATE OR C	COUNT	'RY)	ocument has been filed for
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**	ns SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no lor	-			
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than Office.	the applicant; a reg	istered :	attorney or agent; or th	ne assignee or other party in
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PATENT LAW	GROUP LLP	NGUYEN, STEVE N		
2635 NORTH FIR	RST STREET	ART UNIT	PAPER NUMBER	
SUITE 223 SAN JOSE, CA 9	5134		2117 DATE MAILED: 04/12/2010	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 859 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 859 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	09/751,649	SINGHAL ET AL.	
Notice of Allowability	Examiner	Art Unit	
	STEVE NGUYEN	2117	
The MAILING DATE of this communication appe	ears on the cover sheet w	vith the correspondence addres	
All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	or other appropriate comm GHTS. This application is	nunication will be mailed in due co	ourse. THIS
1. This communication is responsive to <u>1-28-10</u> .			
2. The allowed claim(s) is/are <u>1 and 10-25</u> .			
3. Acknowledgment is made of a claim for foreign priority un	der 35 U.S.C. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some* c) ☐ None of the:			
 Certified copies of the priority documents have 	been received.		
Certified copies of the priority documents have	been received in Applicat	ion No	
Copies of the certified copies of the priority do	cuments have been receiv	ed in this national stage application	on from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requ	irements
4. A SUBSTITUTE OATH OR DECLARATION must be subminification (PTO-152) which give			TICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Revie	ew (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the			ack) of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			ote the
Attachment(s)	5 		
1. Notice of References Cited (PTO-892)		Informal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413), o./Mail Date	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛛 Examiner'	s Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	<u>—</u>	s Statement of Reasons for Allow	ance
	9.	<u>_</u> ·	
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DETAILED ACTION

Claim Rejections - 35 USC § 101

The 35 U.S.C. 101 rejection of claims 1-3 and 10-13 has been withdrawn in view of the amended claims.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David Hsia on 4/7/10. The application has been amended as follows.

In claim 19, line 1: replace "15" with "16".

In claim 23, line 1: replace "filed" with "field".

Allowable Subject Matter

Claims 1 and 10-25 are allowed. The following is an examiner's statement of reasons for allowance: The present invention is directed to a communication method in a node network. Claim 1 requires copying an entire line of memory from a local node to the remote node after new data is written at the local node "even when the new data is smaller than the line of memory at the local node". The prior art of record (US 6049889)

to Steely, Jr. et al) teaches copying an entire line of memory from a local node to the remote node after new data is written at the local node (col. 6, lines 46-47 and col. 7, lines 13-15) and further notes that "connection granularity between nodes is at the page level" (col. 4, lines 54-58). In other words, the smallest unit of data to be transmitted between nodes is at the page level.

The Examiner notes that one of two scenarios is possible in Steely with respect to the claimed hypothetical above when less than a page of data is written to a local node to be copied to a remote node: either the system will not operate as intended; or the data length will be extended to that of a page before transmission. Because Steely is silent with respect to the system operation in the event of the claimed hypothetical that an entire line is copied to the remote node "even when the new data is smaller than the line of memory at the local node", the application is allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to STEVE NGUYEN whose telephone number is (571)272-7214. The examiner can normally be reached on M-F, 10am-6:30pm.

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Art Unit: 2117

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Ellis can be reached on (571) 272-4205. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Steve Nguyen Examiner Art Unit 2117

/Kevin L Ellis/ Supervisory Patent Examiner, Art Unit 2117